

ENHANCED CHANNEL ACCESS MECHANISMS FOR AN HPNA NETWORK

ABSTRACT OF THE DISCLOSURE

A method and system is disclosed for providing access in a centralized manner to a communications medium that is suitable for allowing use of a plurality of Home Phoneline Network Association (HPNA) v2 frames, and such that each HPNA v2 frame is timed to allow a plurality of physical layer priority level slots. A list of sessions in enhanced stations (STAs) using the communications medium is maintained. At least one second message is transmitted from at least one selected non-MC STA in response to a first message during the same HPNA v2 frame. Accordingly, at least one second message can be transmitted to the MC STA and/or to another non-MC STA. At least a portion of the second message simultaneously with the step of transmitting the first message. Similarly, a portion of at least two second messages are transmitted simultaneously with each other.